

WMAP Cosmological Parameters

Model:  $\Lambda$ cdm+mnu

Data: wmap9+spt+act+snls3+h0

$10^9 \Delta_{\mathcal{R}}^2$	$2.476 \pm 0.099$	$H_0$	$73.6 \pm 2.1$ km/s/Mpc
$A_{\text{clustered}}$	< 11 (95% CL)	$A_{\text{Poisson}}^{\text{ACT}}$	$14.6 \pm 2.4$
$A_{\text{Poisson}}^{\text{SPT}}$	> 16 (95% CL)	$\ell(\ell+1)C_{220}/(2\pi)$	$5745 \pm 34$ $\mu\text{K}^2$
$d_A(z_{\text{eq}})$	$14195_{-97}^{+98}$ Mpc	$d_A(z_*)$	$14017_{-102}^{+103}$ Mpc
$D_v(z=0.57)/r_s(z_d)$	$12.70_{-0.28}^{+0.27}$	$\eta$	$(6.06 \pm 0.11) \times 10^{-10}$
$k_{\text{eq}}$	$0.00998 \pm 0.00029$	$\ell_{\text{eq}}$	$139.9 \pm 3.1$
$\ell_*$	$302.04 \pm 0.41$	$\sum m_\nu$	< 0.94 eV (95% CL)
$n_b$	$(2.489 \pm 0.045) \times 10^{-7}$ $\text{cm}^{-3}$	$n_s$	$0.961 \pm 0.011$
$\Omega_b$	$0.0410 \pm 0.0025$	$\Omega_b h^2$	$0.02216 \pm 0.00040$
$\Omega_c$	$0.212 \pm 0.014$	$\Omega_c h^2$	$0.1145 \pm 0.0041$
$\Omega_k$	$0.0131_{-0.0074}^{+0.0077}$	$\Omega_k$	$-0.00021 < \Omega_k < 0.02951$ (95% CL)
$\Omega_\Lambda$	$0.727 \pm 0.021$	$\Omega_m$	$0.260 \pm 0.018$
$\Omega_m h^2$	$0.1408_{-0.0057}^{+0.0058}$	$\Omega_\nu h^2$	< 0.0100 (95% CL)
$\Omega_{\text{tot}}$	$0.9869_{-0.0077}^{+0.0074}$	$\Omega_{\text{tot}}$	$0.97 < \Omega_{\text{tot}} < 1.00$ (95% CL)
$r_s(z_d)$	$152.5 \pm 1.1$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.364 \pm 0.010$
$r_s(z_d)/D_v(z=0.2)$	$0.1984 \pm 0.0052$	$r_s(z_d)/D_v(z=0.35)$	$0.1190 \pm 0.0029$
$r_s(z_d)/D_v(z=0.44)$	$0.0976 \pm 0.0023$	$r_s(z_d)/D_v(z=0.54)$	$0.0823 \pm 0.0018$
$r_s(z_d)/D_v(z=0.57)$	$0.0788 \pm 0.0017$	$r_s(z_d)/D_v(z=0.6)$	$0.0756 \pm 0.0016$
$r_s(z_d)/D_v(z=0.73)$	$0.0651 \pm 0.0013$	$r_s(z_*)$	$145.8 \pm 1.1$
$R$	$1.754_{-0.025}^{+0.026}$	$\sigma_8$	$0.744_{-0.057}^{+0.054}$
$\sigma_8 \Omega_m^{0.5}$	$0.379_{-0.026}^{+0.025}$	$\sigma_8 \Omega_m^{0.6}$	$0.331_{-0.023}^{+0.022}$
$\alpha_{\text{SNLS}}$	$1.43 \pm 0.11$	$\beta_{\text{SNLS}}$	$3.26 \pm 0.11$
$A_{\text{SZ}}$	< 1.1 (95% CL)	$t_0$	$13.27 \pm 0.26$ Gyr
$\tau$	$0.086 \pm 0.013$	$\theta_*$	$0.010401 \pm 0.000014$
$\theta_*$	$0.59596_{-0.00082}^{+0.00081}$ $^\circ$	$\tau_{\text{rec}}$	$283.4_{-2.2}^{+2.3}$
$t_{\text{reion}}$	$440_{-64}^{+63}$ Myr	$t_*$	$375184_{-3963}^{+3955}$ yr
$z_d$	$1019.68_{-0.86}^{+0.84}$	$z_{\text{eq}}$	$3271_{-95}^{+94}$
$z_{\text{rec}}$	$1088.76_{-0.78}^{+0.77}$	$z_{\text{reion}}$	$10.7 \pm 1.1$
$z_*$	$1091.66 \pm 0.77$		